AD0601002CE
J1

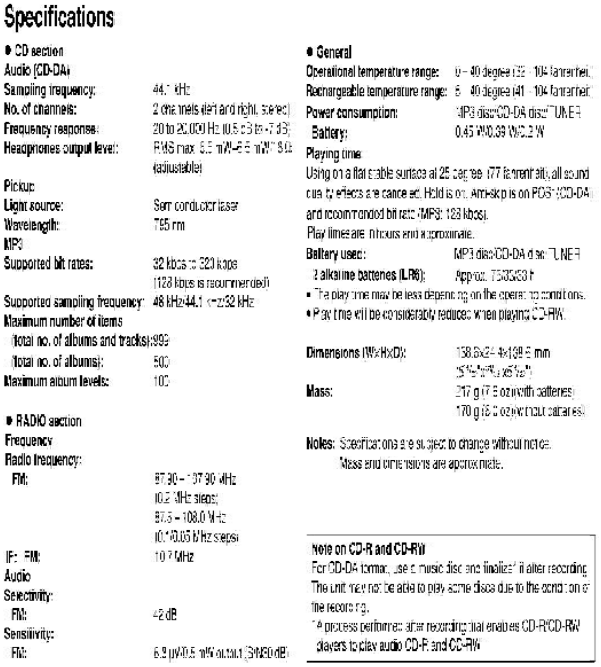
# Service Manual

Portable CD Player

## SL-SV590P / SL-SV590PC

Colours
(W).....White Type
(A).....Blue Type (only SL-SV590P)

SPECIFICATIONS



Specifications

● CD section
Audio (CD-DA)
Sampling frequency: 44.1 kHz
No. of channels: 2 channels (left and right, stereo)
Frequency response: 20 to 20,000 Hz (0.5 dB to +7 dB)
Headphones output level: RMS max. 6.5 mW+6.5 mW (16 Ω, adjustable)

Pickup
Light source: Semiconductor laser
Wavelength: 785 nm

MP3
Supported bit rates: 32 kbps to 320 kbps (128 kbps is recommended)
Supported sampling frequency: 48 kHz/44.1 kHz/32 kHz
Maximum number of items
Total no. of albums and tracks: 999
Total no. of albums: 500
Maximum album levels: 10

● RADIO section
Frequency
Radio frequency:
FM: 87.90 – 107.90 MHz (200 kHz steps); 87.5 – 108.0 MHz (100 kHz/50 kHz steps)
IF: FM: 10.7 MHz
Audio
Selectivity:
FM: 42 dB
Sensitivity:
FM: 6.9 μV/0.5 mV (mono) (S/N 50 dB)

● General
Operational temperature range: 0 – 40 degree (32 – 104 fahrenheit)
Rechargeable temperature range: 5 – 40 degree (41 – 104 fahrenheit)
Power consumption: MP3 disc/CD-DA disc/TUNER
Battery: 0.45 W/0.99 W/2.2 W
Playing time
Using on a flat stable surface at 25 degree (77 fahrenheit), all sound due to effects are cancelled. Hold is on. Anti-skip is on. PCM (CD-DA) and recommended bit rate (MP3: 128 kbps).
Play times are in hours and approximate.
Battery used: MP3 disc/CD-DA disc/TUNER
2 alkaline batteries (LR6): Approx. 15/35/53 h
• The play time may be less depending on the operating conditions.
• Play time will be considerably reduced when playing CD-RW.

Dimensions (W×H×D): 158.6×24.4×139.5 mm (6 1/4"×1"×5 1/2")
Mass: 217 g (7.6 oz) (with batteries) 170 g (6.0 oz) (without batteries)

Notes: Specifications are subject to change without notice.
Mass and dimensions are approximate.

Note on CD-R and CD-RW
For CD-DA format, use a music disc and finalize it after recording.
This unit may not be able to play some discs due to the condition of the recording.
A process performed after recording that enables CD-R/CD-RW players to play audio CD-R and CD-RW

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**⚠ WARNING**

This service information is designed for experienced repair technicians only and is not designed for use by the general public.
It does not contain warnings or cautions to advise non-technical individuals of potential dangers in attempting to service a product.
Products powered by electricity should be serviced or repaired only by experienced professional technicians. Any attempt to service or repair the product or products dealt with in this service information by anyone else could result in serious injury or death.

# 1. Accessories

**- Stereo headphones (for SL-SV590P) (L0BAB0000181).....1 pc.**

**- Stereo earphones (for SL-SV590PC) (L0BAB0000201).....1 pc.**

# 2. Precaution of Laser Diode

**Caution:**

**This product utilizes a class 1 laser. Invisible laser radiation is emitted from the optical pick-up lens when the unit is turned on:**

**1. Do not look directly into the pick-up lens.**

**2. Do not use optical instruments to look at the pick-up lens.**

**3. Do not adjust the preset variable resister on the optical pick-up.**

**4. Do not disassemble the optical pick-up unit.**

**5. If the optical pick-up is replaced, use the manufacture's specified**

**replacement pick-up only.**

**6. Use of control or adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.**

# 3. Schematic Diagram Notes

**- This schematic diagram may be modified at any time with the development of new technology.**

**Notes:**

**S808:**

**Sound quality selection (EQ) switch**

**S809:**

**Tuning, R.skip/search / ( / -) switch**

**S807:**

**Monaural/stereo,Sensitivity control, selection (FM MODE/ MONO/ST CITY/NOR) switch**

**S811:**

**Volume control switch (VOL+)**

**S803:**

**Stop/turn off ( ,TURN OFF) switch**

**S804:**

**Tuning, F.skip/search / ( / +) switch**

**S805:**

**Memory/Anti-skip mode selection (MEMORY) switch**

**S806:**

**Volume control switch (VOL-)**

**S810:**

**Play mode, Tuning mode selection (PLAY MODE/TUNING MODE) switch**

**S810:**

**Tuner on (RADIO) switch**

**S802:**

**Play/pause ( ) switch**

**S201:**

Laser ON/OFF switch / (It turns ON with disc holder closed.)

S310:

Hold (HOLD) switch

- Important safety notice:

Components identified by ⚠ mark have special characteristics important for safety.

Furthermore, special parts which have purposes of fire-retardant (resistors), high-quality sound (capacitors), low-noise (resistors), etc. are used.

When replacing any of components, be sure to use only manufacturer's specified parts shown in the parts list.

- The supply part number is described alone in the replacement parts list.

Caution!

IC and LSI are sensitive to static electricity.
Secondary trouble can be prevented by taking care during repair.
Cover the parts boxes made of plastics with aluminum foil.
Ground the soldering iron.
Put a conductive mat on the work table.
Do not touch the legs of IC or LSI with the fingers directly.

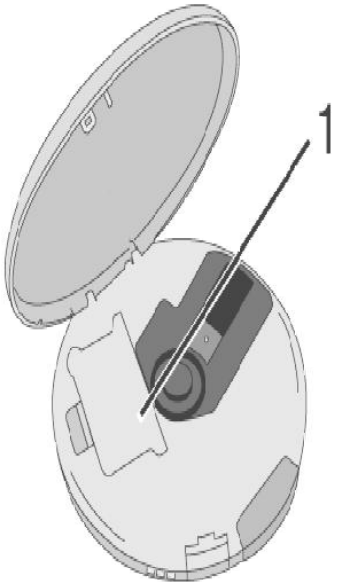
# 4. Schematic Diagram

# 5. Replacement Parts List

Notes:

- All parts are supplied by ASPC.

| Ref. No. | Part No. | Part Name & Description | Pcs | Remarks |
|---|---|---|---|---|
| | | | | |
| 1 | RKK0171-W | BATTERY LID | 1 | |
| | | | | |
| A1 | L0BAD0000181 | HEADPHONES | 1 | (P) |
| A1 | L0BAB0000201 | EARPHONES | 1 | (PC) |
| A2 | RQT8542-P | OPERATION / INSTRUCTIONS | 1 | ENGLISH |
| A2 | RQT8543-C | OPERATION / INSTRUCTIONS | 1 | (PC) / CANADIAN / FRENCH |
| | | | | |

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